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Overview

- Objectives
- What is EA?
- Why are we doing EA?
- How will EA Benefit the Organization?
- What is the vision of EA within FEMA?
- How will EA help achieve strategic outcome?
- OMB FEA Reference Models
- Accomplishments
- Future Plans
- The EA Lifecycle
- Summary



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Objectives

- The objectives of this presentation are:
 - To provide a high-level understanding of what EA is and is not
 - To understand the EA vision and how the Department plans to achieve its goals
 - To present USDA's approach for achieving an actionable EA
 - To understand how EA can assist in with everyday operations



What Is EA?

EA is:

- EA defines the state of the enterprise today and how it will look tomorrow based on the strategic direction of the enterprise
- EA consists of 5 integrated layers
 - Business
 - ◆ Data
 - Application
 - ♦ Technology
 - Cyber security

• EA is NOT:

- Solely an Information Technology (IT) thing...
- A system engineering or system development discipline
- An archiving data base to store engineering and project data EA is a planning vehicle used to assist decision makers in the business transformation of an enterprise



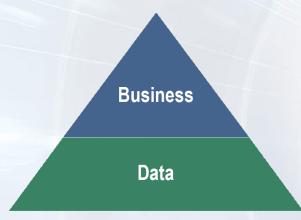
Business Layer



- Addresses the business mission, strategy, line of businesses, organization structure, business process models, business functions, etc
- Includes strategic goals, organization structures, locations, products and services, performance measures, and Exhibit 300
- For Example
 - Business Segment
 - Finance and Acquisition Management
 - Business Function
 - Grants Management
 - Business Process
 - Appropriate Funds



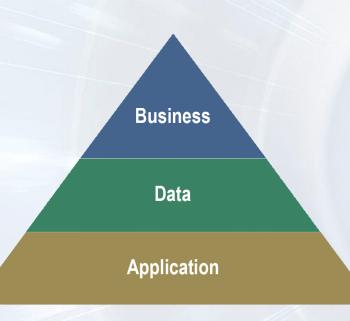
Data Layer



- Defines what information needs to be made available to accomplish the mission, to whom, and how
- Examples from HR Database
 - Subject Area
 - ♦ Employee
 - Database Fields
 - ♦ Name, SSN, Address



Application Layer



- Focuses on the applications required to support the business mission and information needs of the organization
- Examples:
 - Sharepoint
 - Microsoft Office
 - AgLearn



Technology Layer

Business Data

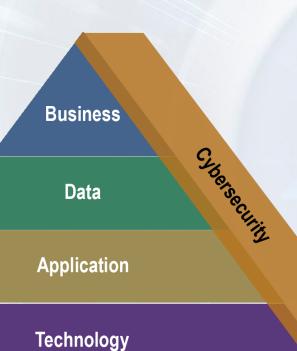
Technology

Application

- Identifies software and hardware used to support applications, information, and business processes
- Consists of servers, network devices, networks, and common COTS such as Web servers
- Examples USDA Technologies:
 - Database
 - ♦ Oracle 9i
 - Operating System
 - **♦ HP-UX**



Cyber Security Layer



- Protects information at all levels from business process to the networks
- Includes access control and authorization and support for privacy
- Example
 - Certification and Accreditation
 - Security Products and Standards
 - Threat Matrix
 - Information System Security Officers listing



What is the Vision of EA Within USDA?





How Will EA Help to Achieve Strategic Outcome?

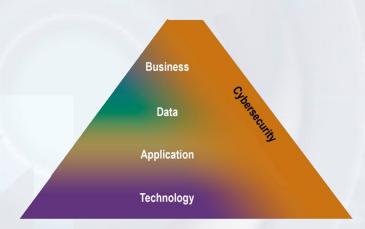
Transformation Strategy FY10-13





Inventory of current elements and their relationships

EA Blueprint



- Greater integration within and between layers
- Reduced cost of data, software, and hardware in solution layers
- Planning tool for maximizing mission performance

How Will EA Help to Achieve Strategic Outcome?





Transformation Strategy FY10-13

EA Blueprint





Capital Planning

- Capital Planning and Investment Control Reviews
- Exhibit 300

EA Governance

- Establish Waiver Process
- Enterprise Transformation Plan
- Spend Plan
- nd Plan Execution
- Advanced Acquisition Plan
- Acquisition Forms

Strategic Planning and Portfolio Management

- Office of Plans and Programs
- Future Year USDA Strategic Plan

Program Management

- Program Management Office Process
- Program Reviews

Cyber Security

- Policy and Standards
- FISMA Compliance



Why are we doing EA?

- The CIO's main objective is to develop an effective enterprise-wide planning tool that will enable the organization to move forward by:
 - Driving more effective IT Capital Planning Investment, by providing accurate and creditable enterprise wide data to key decision makers
 - Increasing communication channels across enterprise
 - Providing consistent and disciplined use of technology
 - Developing "Enterprise Solutions" and eliminating stovepipe solutions
 - Eliminating IT redundancy
 - Providing the ability to identify gaps between "As-Is" and the "To Be" Architectures



Enterprise Architecture Lifecycle

The EA Program Lifecycle consists:

- Development
 - Reference models artifacts are produced and EA governance is defined
 - EA relationships are established and map by using modeling tools
 - Communication strategies are developed
- Implementation
 - Educating the enterprise on vision of EA and how to use it
 - Communicating process changes
 - Training on EA repositories and tools
- Operational
 - Formulate Enterprise Solutions
 - Provide guidance, standards, and planning
- Maintenance
 - Continuous EA Improvement
 - update business processes, information, application, security components and technologies

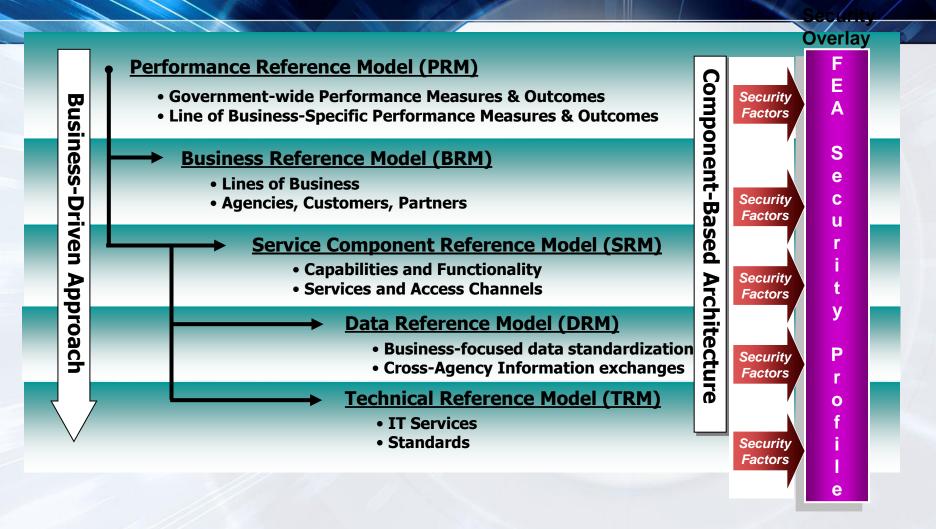


What are the OMB FEA Reference Models?

- Common classification schema for Federal Enterprise Architecture (FEA) – one language across Federal departments
- Five evolving models (schema)
 - Performance Reference Model
 - Business Reference Model
 - Service Component Reference Model
 - Data Reference Model
 - Technical Reference Model
- Together models create a framework for Federal decision making on IT investments
- Primarily used by Architects to organize enterprise information in a systematic way



Federal Enterprise Architecture





Accomplishments

- Restructured EAD Organization
- Developed EA Program Management Plan
- Updated Communication Plan
- Incorporated Capital Planning Processes
- Established working relationships
 - Office of the Chief Financial Office
 - Office of Communications
 - IT Security Policy Office
- Updated EA Guiding Principles
- Developed EA Governance Structure
- Updated/redesigned EA Website
- Redesigned EA Repository



Future Plans

- Continue to execute EA Program Management Plan
 Develop and institutionalize EA at USDA according to EA roadmap
- Create a department-wide TRM and standards profile
- Create Departmental / EA Governance
- Develop Business/Performance Architectures
- Develop Information/Data Architecture
- Develop Applications Architecture
- Develop Technology Architecture
- Develop an IT Security Architecture
- Develop Line-of-Sight through the six EA Domains
- Play an active role in Department and IT Strategic Planning



Summary

- EA is a planning tool. The data within EA must be accurate and creditable in order to support decision makers. Therefore, it is everyone's responsibility to ensure that the EA is up-to-date.
- EAD defined a three year EA Program Management Plan and have taken steps in making the USDA EA actionable. However, we have a ways to go in order to fulfill the end goal of EA.
- The return on investment (ROI) of EA is both tangible and intangible. It saves money, time and effort while improving communication across the department.

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